

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-06-15 10:05:25  
Date of Next Testing: 2030-06-14 10:05:25  
Product Name: **2,3-Butanedione**  
CAS Number: 431-03-8  
Specifications & Purity:  $\geq 98\%$   
Lot #: F2603183  
SKU #: **B104601**  
Version: **1**  
Analysis #: **613234**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.393-1.397	1.39460
Purity(GC)	98-100 (%)	99.76200 %
Appearance (B104601)	Yellow to Yellow-Green Liquid	Yellow to Yellow-Green Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager